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SEQUENCE LISTING

<110> Pierre Fabre Médicament

<120> USE OF ACTIVE P40 CONJUGATES FOR NASAL DELIVERY

<130> D17064

Sub B3
<140> PCT/FR99/00703

<141> 1999-03-26

<150> FR 98 03814
<151> 1998-03-27

<160> 136

<170> PatentIn Vers. 2.0

<210> 1

<211> 1032

<212> ADN

<213> Klebsiella pneumoniae

<220>

<221> CDS

<222> (1)..(1032)

<223> rP40

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tat gca ggt ggt aaa ctg ggt tgg tcc cag tat cac gac acc ggt ttc 96
Tyr Ala Gly Gly Lys Leu Gly Trp Ser Gln Tyr His Asp Thr Gly Phe
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tac ggt aac ggt ttc cag aac aac ggt ccg acc ggt aac gat cag 144
Tyr Gly Asn Gly Phe Gln Asn Asn Gly Pro Thr Arg Asn Asp Gln
35 40 45

ctt ggt gct ggt gcg ttc ggt ggt tac cag gtt aac ccg tac ctc ggt 192
Leu Gly Ala Gly Ala Phe Gly Gly Tyr Gln Val Asn Pro Tyr Leu Gly
50 55 60

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Phe Glu Met Gly Tyr Asp Trp Leu Gly Arg Met Ala Tyr Lys Gly Ser
65 70 75 80

gtt gac aac ggt gct ttc aaa gct cag ggc gtt cag ctg acc gct aaa 288
Val Asp Asn Gly Ala Phe Lys Ala Gln Gly Val Gln Leu Thr Ala Lys
85 90 95

ctg ggt tac ccg atc act gac gat ctg gac atc tac acc cgt ctg ggc 336
Leu Gly Tyr Pro Ile Thr Asp Asp Leu Asp Ile Tyr Thr Arg Leu Gly
100 105 110

ggc atg gtt tgg cgc gct gac tcc aaa ggc aac tac gct tct acc ggc 384

Gly Met Val Trp Arg Ala Asp Ser Lys Gly Asn Tyr Ala Ser Thr Gly
115 120 125

gtt tcc cgt agc gaa cac gac act ggc gtt tcc cca gta ttt gct ggc 432
Val Ser Arg Ser Glu His Asp Thr Gly Val Ser Pro Val Phe Ala Gly
130 135 140

ggc gta gag tgg gct gtt act cgt gac atc gct acc cgt ctg gaa tac 480
Gly Val Glu Trp Ala Val Thr Arg Asp Ile Ala Thr Arg Leu Glu Tyr
145 150 155 160

cag tgg gtt aac aac atc ggc gac gcg ggc act gtg ggt acc cgt cct 528
Gln Trp Val Asn Asn Ile Gly Asp Ala Gly Thr Val Gly Thr Arg Pro
165 170 175

gat aac ggc atg ctg agc ctg ggc gtt tcc tac cgc ttc ggt cag gaa 576
Asp Asn Gly Met Leu Ser Leu Gly Val Ser Tyr Arg Phe Gly Gln Glu
180 185 190

gat gct gca ccg gtt gtt gct ccg gct ccg gct ccg gaa gtg 624
Asp Ala Ala Pro Val Val Ala Pro Ala Pro Ala Pro Glu Val
195 200 205

gct acc aag cac ttc acc ctg aag tct gac gtt ctg ttc aac ttc aac 672
Ala Thr Lys His Phe Thr Leu Lys Ser Asp Val Leu Phe Asn Phe Asn
210 215 220

aaa gct acc ctg aaa ccg gaa ggt cag cag gct ctg gat cag ctg tac 720
Lys Ala Thr Leu Lys Pro Glu Gly Gln Gln Ala Leu Asp Gln Leu Tyr
225 230 235 240

act cag ctg agc aac atg gat ccg aaa gac ggt tcc gct gtt gtt ctg 768
Thr Gln Leu Ser Asn Met Asp Pro Lys Asp Gly Ser Ala Val Val Leu
245 250 255

ggc tac acc gac cgc atc ggt tcc gaa gct tac aac cag cag ctg tct 816
Gly Tyr Thr Asp Arg Ile Gly Ser Glu Ala Tyr Asn Gln Gln Leu Ser
260 265 270

gag aaa cgt gct cag tcc gtc gtt gac tac ctg gtt gct aaa ggc atc 864
Glu Lys Arg Ala Gln Ser Val Val Asp Tyr Leu Val Ala Lys Gly Ile
275 280 285

ccg gct ggc aaa atc tcc gct cgc ggc atg ggt gaa tcc aac ccg gtt 912
Pro Ala Gly Lys Ile Ser Ala Arg Gly Met Gly Glu Ser Asn Pro Val
290 295 300

act ggc aac acc tgt gac aac gtg aaa gct cgc gct gcc ctg atc gat 960
Thr Gly Asn Thr Cys Asp Asn Val Lys Ala Arg Ala Ala Leu Ile Asp
305 310 315 320

tgc ctg gct ccg gat cgt cgt gta gag atc gaa gtt aaa ggc tac aaa 1008
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325 330 335

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<212> PRT
<213> Klebsiella pneumoniae

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35 40 45

Leu Gly Ala Gly Ala Phe Gly Gly Tyr Gln Val Asn Pro Tyr Leu Gly
50 55 60

Phe Glu Met Gly Tyr Asp Trp Leu Gly Arg Met Ala Tyr Lys Gly Ser
65 70 75 80

Val Asp Asn Gly Ala Phe Lys Ala Gln Gly Val Gln Leu Thr Ala Lys
85 90 95

Leu Gly Tyr Pro Ile Thr Asp Asp Leu Asp Ile Tyr Thr Arg Leu Gly
100 105 110

Gly Met Val Trp Arg Ala Asp Ser Lys Gly Asn Tyr Ala Ser Thr Gly
115 120 125

Val Ser Arg Ser Glu His Asp Thr Gly Val Ser Pro Val Phe Ala Gly
130 135 140

Gly Val Glu Trp Ala Val Thr Arg Asp Ile Ala Thr Arg Leu Glu Tyr
145 150 155 160

Gln Trp Val Asn Asn Ile Gly Asp Ala Gly Thr Val Gly Thr Arg Pro
165 170 175

Asp Asn Gly Met Leu Ser Leu Gly Val Ser Tyr Arg Phe Gly Gln Glu
180 185 190

Asp Ala Ala Pro Val Val Ala Pro Ala Pro Ala Pro Ala Pro Glu Val
195 200 205

Ala Thr Lys His Phe Thr Leu Lys Ser Asp Val Leu Phe Asn Phe Asn
210 215 220

Lys Ala Thr Leu Lys Pro Glu Gly Gln Gln Ala Leu Asp Gln Leu Tyr
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Thr Gln Leu Ser Asn Met Asp Pro Lys Asp Gly Ser Ala Val Val Leu
245 250 255

Gly Tyr Thr Asp Arg Ile Gly Ser Glu Ala Tyr Asn Gln Gln Leu Ser
260 265 270

Glu Lys Arg Ala Gln Ser Val Val Asp Tyr Leu Val Ala Lys Gly Ile
275 280 285

Pro Ala Gly Lys Ile Ser Ala Arg Gly Met Gly Glu Ser Asn Pro Val
290 295 300

Sub B
Thr Gly Asn Thr Cys Asp Asn Val Lys Ala Arg Ala Ala Leu Ile Asp
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Glu Val Val Thr Gln Pro Gln Ala
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<210> 3

<211> 303

<212> ADN

<213> Respiratory Syncytial Virus (RSV)

<220>

<221> CDS

<222> (1)...(303)

<220>

<223> G2A

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1 5 10 15

ccg acc acc aaa cag cgt cag aac aaa ccg ccg aac aaa ccg aac aac 96
Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro Pro Asn Lys Pro Asn Asn
20 25 30

gat ttc cat ttc gaa gtg ttc aac ttc gtg ccg tgc agc atc tgc agc 144
Asp Phe His Phe Glu Val Phe Asn Phe Val Pro Cys Ser Ile Cys Ser
35 40 45

aac aac ccg acc tgc tgg gcg atc tgc aaa cgt atc ccg aac aaa aaa 192
Asn Asn Pro Thr Cys Trp Ala Ile Cys Lys Arg Ile Pro Asn Lys Lys
50 55 60

ccg ggc aaa aaa acc acg acc aaa ccg acc aaa aaa ccg acc ttc aaa 240
Pro Gly Lys Lys Thr Thr Lys Pro Thr Lys Lys Pro Thr Phe Lys
65 70 75 80

acc acc aaa aaa gat cat aaa ccg cag acc acc aaa ccg aaa gaa gtg 288
Thr Thr Lys Lys Asp His Lys Pro Gln Thr Thr Lys Pro Lys Glu Val
85 90 95

ccg acc acc aaa ccg
Pro Thr Thr Lys Pro
100 303

G2B
G2B

<210> 4
<211> 101
<212> PRT
<213> Respiratory Syncytial Virus (RSV)

Thr Val Lys Thr Lys Asn Thr Thr Thr Gln Thr Gln Pro Ser Lys
1 5 10 15

Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro Pro Asn Lys Pro Asn Asn
20 25 30

Asp Phe His Phe Glu Val Phe Asn Phe Val Pro Cys Ser Ile Cys Ser
35 40 45

Asn Asn Pro Thr Cys Thr Ala Ile Cys Lys Arg Ile Pro Asn Lys Lys
50 55 60

Pro Gly Lys Lys Thr Thr Thr Lys Pro Thr Lys Lys Pro Thr Phe Lys
65 70 75 80

Thr Thr Lys Lys Asp His Lys Pro Gln Thr Thr Lys Pro Lys Glu Val
85 90 95

Pro Thr Thr Lys Pro
100

<210> 5
<211> 303
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<220>
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<222> (1)...(303)

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Thr Ala Gln Thr Lys Gly Arg Ile Thr Thr Ser Thr Gln Thr Asn Lys
1 5 10 15

ccg agc acc aaa agc cgt agc aaa aac ccg ccg aaa aaa ccg aaa gat 96
Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro Pro Lys Lys Pro Lys Asp
20 25 30

gat tac cac ttc gaa gtg ttc aac ttc gtg ccc tgc agc atc tgc ggc 144
Asp Tyr His Phe Glu Val Phe Asn Phe Val Pro Cys Ser Ile Cys Gly
35 40 45

aac aac cag ctg tgc aaa agc atc tgc aaa acc atc ccg agc aac aaa 192
Asn Asn Gln Leu Cys Lys Ser Ile Cys Lys Thr Ile Pro Ser Asn Lys
50 55 60

ccg aaa aag aaa ccg acc atc aaa ccg acc aac aaa ccg acc acc acc aaa
Pro Lys Lys Lys Pro Thr Ile Lys Pro Thr Asn Lys Pro Thr Thr Lys 240
65 70 75 80

acc acc aac aaa cgt gat ccg aaa acc ccg gcg aaa atg ccg aag aag 288
Thr Thr Asn Lys Arg Asp Pro Lys Thr Pro Ala Lys Met Pro Lys Lys
85 90 95

gaa atc atc acc aac 303
Glu Ile Ile Thr Asn
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<210> 6

<211> 101

<212> PRT

<213> Respiratory Syncytial Virus (RSV)

<400> 6

Thr Ala Gln Thr Lys Gly Arg Ile Thr Thr Ser Thr Gln Thr Asn Lys
1 5 10 15

Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro Pro Lys Lys Pro Lys Asp
20 25 30

Asp Tyr His Phe Glu Val Phe Asn Phe Val Pro Cys Ser Ile Cys Gly
35 40 45

Asn Asn Gln Leu Cys Lys Ser Ile Cys Lys Thr Ile Pro Ser Asn Lys
50 55 60

Pro Lys Lys Lys Pro Thr Ile Lys Pro Thr Asn Lys Pro Thr Thr Lys
65 70 75 80

Thr Thr Asn Lys Arg Asp Pro Lys Thr Pro Ala Lys Met Pro Lys Lys
85 90 95

Glu Ile Ile Thr Asn
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<210> 7

<211> 303

<212> ADN

<213> Respiratory Syncytial Virus (RSV)

<220>

<221> CDS

<222> (1)...(303)

<220>

<223> G2AδCys

<400> 7

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1 5 10 15

4.8

Sub
B3

ccg acc acc aaa cag cgt cag aac aaa ccg ccg aac aaa ccg aac aac 96
Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro Pro Asn Lys Pro Asn Asn
20 25 30

gat ttc cat ttc gaa gtg ttc aac ttc gtg ccg agc agc atc tgc agc 144
Asp Phe His Phe Glu Val Phe Asn Phe Val Pro Ser Ser Ile Cys Ser
35 40 45

aac aac ccg acc tgc tgg gcg atc agc aaa cgt atc ccg aac aaa aaa 192
Asn Asn Pro Thr Cys Trp Ala Ile Ser Lys Arg Ile Pro Asn Lys Lys
50 55 60

ccg ggc aaa aaa acc acg acc aaa ccg acc aaa aaa ccg acc ttc aaa 240
Pro Gly Lys Lys Thr Thr Lys Pro Thr Lys Lys Pro Thr Phe Lys
65 70 75 80

acc acc aaa aaa gat cat aaa ccg cag acc acc aaa ccg aaa gaa gtg 288
Thr Thr Lys Lys Asp His Lys Pro Gln Thr Thr Lys Pro Lys Glu Val
85 90 95

ccg acc acc aaa ccg 303
Pro Thr Thr Lys Pro
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<210> 8
<211> 101
<212> PRT

<213> Respiratory Syncytial Virus (RSV)

<400> 8
Thr Val Lys Thr Lys Asn Thr Thr Thr Gln Thr Gln Pro Ser Lys
1 5 10 15

Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro Pro Asn Lys Pro Asn Asn
20 25 30

Asp Phe His Phe Glu Val Phe Asn Phe Val Pro Ser Ser Ile Cys Ser
35 40 45

Asn Asn Pro Thr Cys Trp Ala Ile Ser Lys Arg Ile Pro Asn Lys Lys
50 55 60

Pro Gly Lys Lys Thr Thr Lys Pro Thr Lys Lys Pro Thr Phe Lys
65 70 75 80

Thr Thr Lys Lys Asp His Lys Pro Gln Thr Thr Lys Pro Lys Glu Val
85 90 95

Pro Thr Thr Lys Pro
100

<210> 9
<211> 303
<212> ADN
<213> Respiratory Syncytial Virus (RSV)

Sub B3

<220>
<221> CDS
<222> (1)..(303)

<220>
<223> G2BδCys

<400> 9

acc gcg cag acc aaa ggc cgt atc acc acc agc acc cag acc aac aaa
Thr Ala Gln Thr Lys Gly Arg Ile Thr Thr Ser Thr Gln Thr Asn Lys 48
1 5 10 15

ccg agc acc aaa agc cgt agc aaa aac ccg ccg aaa aaa ccg aaa gat
Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro Pro Lys Lys Pro Lys Asp 96
20 25 30

gat tac cac ttc gaa gtg ttc aac ttc gtg ccc agc agc atc tgc ggc
Asp Tyr His Phe Glu Val Phe Asn Phe Val Pro Ser Ser Ile Cys Gly 144
35 40 45

aac aac cag ctg tgc aaa agc atc agc aaa acc atc ccg agc aac aaa 192
Asn Asn Gln Leu Cys Lys Ser Ile Ser Lys Thr Ile Pro Ser Asn Lys
50 55 60

ccg aaa aag aaa ccg acc atc aaa ccg acc aac aaa ccg acc acc aaa 240
Pro Lys Lys Pro Thr Ile Lys Pro Thr Asn Lys Pro Thr Thr Lys
65 70 75 80

acc acc aac aaa cgt gat ccg aaa acc ccg gcg aaa atg ccg aag aag 288
Thr Thr Asn Lys Arg Asp Pro Lys Thr Pro Ala Lys Met Pro Lys Lys
85 90 95

gaa atc atc acc aac
Glu Ile Ile Thr Asn 303
100

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<211> 101
<212> PRT
<213> Respiratory Syncytial Virus (RSV)

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1 5 10 15

Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro Pro Lys Lys Pro Lys Asp 80
20 25 30

Asp Tyr His Phe Glu Val Phe Asn Phe Val Pro Ser Ser Ile Cys Gly 80
35 40 45

Asn Asn Gln Leu Cys Lys Ser Ile Ser Lys Thr Ile Pro Ser Asn Lys 80
50 55 60

Pro Lys Lys Lys Pro Thr Ile Lys Pro Thr Asn Lys Pro Thr Thr Lys 80

<212> ADN
<213> Respiratory Syncytial Virus (RSV)

<220>
<221> CDS
<222> (1)..(42)

<220>
<223> G1ACys

<400> 11
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42

<210> 12
<211> 14
<212> PRT
<213> Respiratory Syncytial Virus (RSV)

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<210> 13
<211> 42
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<213> Respiratory Syncytial Virus (RSV)

<220>
<221> CDS
<222> (1)..(42)

<220>
<223> G1BCys

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Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Cys Lys
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Sub B3

<210> 14
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<212> PRT
<213> Respiratory Syncytial Virus (RSV)

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Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Cys Lys
1 5 10

<210> 15
<211> 42
<212> ADN
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<222> (1) .. (42)

<220>
<223>G1A

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42

<210> 16
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<212> PRT
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<210> 17
<211> 42
<212> ADN
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<220>
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<222> (1) .. (42)

<220>
<223>G1B

<400> 17
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1 5 10

42

Su
B3
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<211> 14
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~~<213> Respiratory Syncytial Virus (RSV)~~

~~<400> 18
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1 5 10~~

~~<210> 19
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~~<220>
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~~<220>
<223> G1'A~~

~~<400> 19
Ser Ile Asp Ser Asn Asn Pro Thr Xaa Trp Ala Ile Cys Lys
1 5 10~~

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~~<220>
<223> G1'B~~

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Ser Ile Asp Gly Asn Asn Gln Leu Xaa Lys Ser Ile Cys Lys
1 5 10~~

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~~<220>
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~~<220>
<223> G1'AδC~~

~~<400> 21
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Sub B3

5 10

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<220>
<223> G1'BδC

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<222> (1)...(303)

<220>
<223> G2AδCF

<400> 23
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Thr Val Lys Thr Lys Asn Thr Thr Thr Gln Thr Gln Pro Ser Lys
1 5 10 15

ccg acc acc aaa cag cgt cag aac aaa ccg ccg aac aaa ccg aac aac 96
Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro Pro Asn Lys Pro Asn Asn
20 25 30

gat tcc cat tcc gaa gtg tcc aac tcc gtg ccg agc agc atc tgc agc 144
Asp Ser His Ser Glu Val Ser Asn Ser Val Pro Ser Ser Ile Cys Ser
35 40 45

aac aac ccg acc tgc tgg gcg atc agc aaa cgt atc ccg aac aaa aaa 192
Asn Asn Pro Thr Cys Trp Ala Ile Ser Lys Arg Ile Pro Asn Lys Lys
50 55 60

ccg ggc aaa aaa acc acg acc aaa ccg acc aaa aaa ccg acc ttc aaa 240
Pro Gly Lys Lys Thr Thr Lys Pro Thr Lys Lys Pro Thr Phe Lys
65 70 75 80

acc acc aaa aaa gat cat aaa ccg cag acc acc aaa ccg aaa gaa gtg 288
Thr Thr Lys Lys Asp His Lys Pro Gln Thr Thr Lys Pro Lys Glu Val
85 90 95

303

ccg acc acc aaa ccg
Pro Thr Thr Lys Pro
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<210> 24
<211> 101
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<213> Respiratory Syncytial Virus (RSV)

Sub B3
<400> 24
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Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro Pro Asn Lys Pro Asn Asn
20 25 30

Asp Ser His Ser Glu Val Ser Asn Ser Val Pro Ser Ser Ile Cys Ser
35 40 45

Asn Asn Pro Thr Cys Trp Ala Ile Ser Lys Arg Ile Pro Asn Lys Lys
50 55 60

Pro Gly Lys Lys Thr Thr Lys Pro Thr Lys Lys Pro Thr Phe Lys
65 70 75 80

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85 90 95

Pro Thr Thr Lys Pro
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<210> 25
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<212> ADN
<213> Respiratory Syncytial Virus (RSV)

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<221> CDS
<222> (1)...(51)

<220>
<223> G4A

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aaa
Lys 51

<210> 26
<211> 17
<212> PRT
<213> Respiratory Syncytial Virus (RSV)

<400> 26
Val Pro Cys Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Cys
1 5 10 15

Lys

Sub B³
<210> 27
<211> 51
<212> ADN
<213> Respiratory Syncytial Virus (RSV)

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<222> (1)..(51)

<220>
<223> G4AδC

<400> 27
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Val Pro Ser Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Ser
1 5 10 15

aaa
Lys

<210> 28
<211> 17
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<213> Respiratory Syncytial Virus (RSV)

<400> 28
Val Pro Ser Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Ser
1 5 10 15

Lys

<210> 29
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<400> 29

gtg ccc tgc agc atc tgc ggc aac aac cag ctg tgc aaa agc atc tgc 48
Val Pro Cys Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Cys
1 5 10 15

Sub B3
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Lys

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1 5 10 15

Lys

<210> 31
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<220>
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<220>
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<400> 31
gtg ccc agc agc atc tgc ggc aac aac cag ctg tgc aaa agc atc agc 48
Val Pro Ser Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Ser
1 5 10 15

aaa 51
Lys

<210> 32
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Val Pro Ser Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Ser
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Lys

<210> 33
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Val Pro Asp Ser Ile Asp Ser Asn Asn Pro Thr Xaa Trp Ala Ile Xaa
1 5 10 15

Lys

PF82PCTSEQ
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<210> 34
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<220>
<223> Xaa means Orn.

<220>
<223> G4'AδC

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1 5 10 15

Lys

<210> 35
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<220>
<223> Xaa means Orn..

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Val Pro Asp Ser Ile Asp Gly Asn Asn Gln Leu Xaa Lys Ser Ile Xaa
1 5 10 15

Lys

<210> 36
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Sub B²
<220>
<223> Xaa means Orn.
<220>
<223> G4'BδC

<400> 36
Val Pro Ser Ser Ile Asp Gly Asn Asn Gln Leu Xaa Lys Ser Ile Ser
1 5 10 15

Lys

<210> 37
<211> 183
<212> ADN
<213> Respiratory syncytial Virus (RSV)

<220>
<221> CDS
<222> (1)...(183)

<220>
<223> G200A

<400> 37
cag acc cag ccg agc aaa ccg acc acc aaa cag cgt cag aac aaa ccg 48
Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro
1 5 10 15

ccg aac aaa ccg aac aac gat ttc cat ttc gaa gtg ttc aac ttc gtg 96
Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val
20 25 30

ccg tgc agc atc tgc agc aac aac ccg acc tgc tgg gcg atc tgc aaa 144
Pro Cys Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Cys Lys
35 40 45

cgt atc ccg aac aaa aaa ccg ggc aaa aaa acc acg acc 183
Arg Ile Pro Asn Lys Lys Pro Gly Lys Lys Thr Thr Thr
50 55 60

<210> 38
<211> 61
<212> PRT
<213> Respiratory syncytial Virus (RSV)

<400> 38
Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro

Sub
B3

1 5 10 15
Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val
20 25 30
Pro Cys Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Cys Lys
35 40 45
Arg Ile Pro Asn Lys Lys Pro Gly Lys Lys Thr Thr Thr
50 55 60

<210> 39
<211> 177
<212> ADN
<213> Respiratory syncytial Virus (RSV)

<220>
<221> CDS
<222> (1)...(177)

<220>
<223> G198A

<400> 39
cag acc cag ccg agc aaa ccg acc acc aaa cag cgt cag aac aaa ccg 48
Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro
1 5 10 15

ccg aac aaa ccg aac aac gat ttc cat ttc gaa gtg ttc aac ttc gtg 96
Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val
20 25 30

ccg tgc agc atc tgc agc aac aac ccg acc tgc tgg gcg atc tgc aaa 144
Pro Cys Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Cys Lys
35 40 45

cgt atc ccg aac aaa aaa ccg ggc aaa aaa acc 177
Arg Ile Pro Asn Lys Lys Pro Gly Lys Lys Thr
50 55

<210> 40
<211> 59
<212> PRT
<213> Respiratory syncytial Virus (RSV)

<400> 40
Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro
1 5 10 15
Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val
20 25 30
Pro Cys Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Cys Lys
35 40 45

Arg Ile Pro Asn Lys Lys Pro Gly Lys Lys Thr
50 55

<210> 41
<211> 171
<212> ADN
<213> Respiratory syncytial Virus (RSV)

<220>
<221> CDS
<222> (1) .. (171)

<220>
<223> G196A

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<400> 41
cag acc cag ccg agc aaa ccg acc acc aaa cag cgt cag aac aaa ccg 48
Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro
    1           5           10          15

ccg aac aaa ccg aac aac gat ttc cat ttc gaa gtg ttc aac ttc gtg 96
Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val
    20          25          30

ccg tgc agc atc tgc agc aac aac ccg acc tgc tgg gcg atc tgc aaa 144
Pro Cys Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Cys Lys
    35          40          45

cgt atc ccg aac aaa aaa ccg ggc aaa 171
Arg Ile Pro Asn Lys Lys Pro Gly Lys
    50          55

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<210> 42
<211> 57
<212> PRT
<213> *Respiratory syncytial Virus (RSV)*

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<400> 42
Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro
      1          5          10          15

Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val
      20         25          30

Pro Cys Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Cys Lys
      35         40          45

Arg Ile Pro Asn Lys Lys Pro Gly Lys
      50         55

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<210> 43
<211> 165
<212> ADN
<213> Respiratory syncytial Virus (RSV)

Sub 3
<220>
<221> CDS
<222> (1)...(165)

<220>
<223> G194A

<400> 43
cag acc cag ccg agc aaa ccg acc acc aaa cag cgt cag aac aaa ccg 48
Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro
1 5 10 15

ccg aac aaa ccg aac aac gat ttc cat ttc gaa gtg ttc aac ttc gtg 96
Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val
20 25 30

ccg tgc agc atc tgc agc aac aac ccg acc tgc tgg gcg atc tgc aaa 144
Pro Cys Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Cys Lys
35 40 45

cgt atc ccg aac aaa aaa ccg 165
Arg Ile Pro Asn Lys Lys Pro
50 55

<210> 44
<211> 55
<212> PRT
<213> Respiratory syncytial Virus (RSV)

<400> 44
Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro 44
1 5 10 15
Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val
20 25 30

Pro Cys Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Cys Lys
35 40 45

Arg Ile Pro Asn Lys Lys Pro
50 55

<210> 45
<211> 159
<212> ADN
<213> Respiratory syncytial Virus (RSV)

<220>
<221> CDS
<222> (1)...(159)

<220>
<223> G192A

<400> 45

cag acc cag ccg agc aaa ccg acc acc aaa cag cgt cag aac aaa ccg
Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro
1 5 10 15

48

ccg aac aaa ccg aac aac gat ttc cat ttc gaa gtg ttc aac ttc gtg
Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val
20 25 30

96

ccg tgc agc atc tgc agc aac ccg acc tgc tgg gcg atc tgc aaa
Pro Cys Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Cys Lys
35 40 45

144

cgt atc ccg aac aaa
Arg Ile Pro Asn Lys
50

159

<210> 46

<211> 53

<212> PRT

<213> Respiratory syncytial Virus (RSV)

<400> 46

Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro
1 5 10 15

Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val
20 25 30

Pro Cys Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Cys Lys
35 40 45

Arg Ile Pro Asn Lys
50

<210> 47

<211> 153

<212> ADN

<213> Respiratory syncytial Virus (RSV)

<220>

<221> CDS

<222> (1)...(153)

<220>

<223> G6A

<400> 47

cag acc cag ccg agc aaa ccg acc acc aaa cag cgt cag aac aaa ccg
Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro
1 5 10 15

48

ccg aac aaa ccg aac aac gat ttc cat ttc gaa gtg ttc aac ttc gtg
Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val

96

Sub
B
2

20

25

30

ccg tgc agc atc tgc agc aac ccg acc tgc tgg gcg atc tgc aaa 144
Pro Cys Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Cys Lys
35 40 45

cgt atc ccg 153
Arg Ile Pro
50

<210> 48
<211> 51
<212> PRT
<213> Respiratory syncytial Virus (RSV)

<400> 48
Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro
1 5 10 15

Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val
20 25 30

Pro Cys Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Cys Lys
35 40 45

Arg Ile Pro
50

<210> 49
<211> 99
<212> ADN
<213> Respiratory syncytial Virus (RSV)

<220>
<221> CDS
<222> (1)..(99)

<220>
<223> G7A

<400> 49
aaa ccg aac aac gat ttc cat ttc gaa gtg ttc aac ttc gtg ccg tgc 48
Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val Pro Cys
1 5 10 15

agc atc tgc agc aac aac ccg acc tgc tgg gcg atc tgc aaa cgt atc 96
Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Cys Lys Arg Ile
20 25 30

ccg 99
Pro

<210> 50
<211> 33

<212> PRT

<213> Respiratory syncytial Virus (RSV)

<400> 50

Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val Pro Cys
1 5 10 15

Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Cys Lys Arg Ile
20 25 30

Pro

<210> 51

<211> 183

<212> ADN

<213> Respiratory syncytial Virus (RSV)

<220>

<221> CDS

<222> (1)..(183)

<220>

<223> G200AδC

<400> 51

cag acc cag ccg agc aaa ccg acc acc aaa cag cgt cag aac aaa ccg 48
Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro
1 5 10 15

ccg aac aaa ccg aac aac gat ttc cat ttc gaa gtg ttc aac ttc gtg 96
Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val
20 25 30

ccg agc agc atc tgc agc aac aac ccg acc tgc tgg gcg atc agc aaa 144
Pro Ser Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Ser Lys
35 40 45

cgt atc ccg aac aaa aaa ccg ggc aaa aaa acc acg acc 183
Arg Ile Pro Asn Lys Lys Pro Gly Lys Lys Thr Thr Thr
50 55 60

<210> 52

<211> 61

<212> PRT

<213> Respiratory syncytial Virus (RSV)

<400> 52

Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro
1 5 10 15

Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val
20 25 30

Pro Ser Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Ser Lys
35 40 45

Arg Ile Pro Asn Lys Lys Pro Gly Lys Thr Thr Thr
50 55 60

Sub B3
<210> 53
<211> 177
<212> ADN
<213> Respiratory syncytial Virus (RSV)

<220>
<221> CDS
<222> (1)...(177)

<220>
<223> G198AδC

PF82PCTSEQ/dln
<400> 53
cag acc cag ccg agc aaa ccg acc acc aaa cag cgt cag aac aaa ccg 48
Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro
1 5 10 15

ccg aac aaa ccg aac aac gat ttc cat ttc gaa gtg ttc aac ttc gtg 96
Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val
20 25 30

ccg agc agc atc tgc agc aac aac ccg acc tgc tgg gcg atc agc aaa 144
Pro Ser Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Ser Lys
35 40 45

cgt atc ccg aac aaa aaa ccg ggc aaa aaa acc 177
Arg Ile Pro Asn Lys Lys Pro Gly Lys Lys Thr
50 55

<210> 54
<211> 59
<212> PRT
<213> Respiratory syncytial Virus (RSV)

<400> 54
Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro 48
1 5 10 15

Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val
20 25 30

Pro Ser Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Ser Lys
35 40 45

Arg Ile Pro Asn Lys Lys Pro Gly Lys Lys Thr
50 55

<210> 55
<211> 171
<212> ADN

<213> Respiratory syncytial Virus (RSV)

<220>

<221> CDS

<222> (1)..(171)

*SuB
B3*

<400> 55

cag acc cag ccg agc aaa ccg acc acc aaa cag cgt cag aac aaa ccg 48
Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro
1 5 10 15

ccg aac aaa ccg aac gat ttc cat ttc gaa gtg ttc aac ttc gtg 96
Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val
20 25 30

ccg agc agc atc tgc agc aac aac ccg acc tgc tgg gcg atc agc aaa 144
Pro Ser Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Ser Lys
35 40 45

cgt atc ccg aac aaa aaa ccg ggc aaa 171
Arg Ile Pro Asn Lys Lys Pro Gly Lys
50 55

<210> 56

<211> 57

<212> PRT

<213> Respiratory syncytial Virus (RSV)

<400> 56

Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro
1 5 10 15

Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val
20 25 30

Pro Ser Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Ser Lys
35 40 45

Arg Ile Pro Asn Lys Lys Pro Gly Lys
50 55

<210> 57

<211> 165

<212> ADN

<213> Respiratory syncytial Virus (RSV)

<220>

<221> CDS

<222> (1)..(165)

<220>

<223> G194AδC

Sub B3

<400> 57
cag acc cag ccg agc aaa ccg acc acc aaa cag cgt cag aac aaa ccg 48
Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro
1 5 10 15

ccg aac aaa ccg aac aac gat ttc cat ttc gaa gtg ttc aac ttc gtg 96
Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val
20 25 30

ccg agc agc atc tgc agc aac ccg acc tgc tgg gcg atc agc aaa 144
Pro Ser Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Ser Lys
35 40 45

cgt atc ccg aac aaa aaa ccg 165
Arg Ile Pro Asn Lys Lys Pro
50 55

<210> 58
<211> 55
<212> PRT

<213> Respiratory syncytial Virus (RSV)

<400> 58
Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro 48
1 5 10 15

Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val
20 25 30

Pro Ser Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Ser Lys
35 40 45

Arg Ile Pro Asn Lys Lys Pro
50 55

<210> 59
<211> 159
<212> ADN

<213> Respiratory syncytial Virus (RSV)

<220>
<221> CDS
<222> (1)...(159)

<220>
<223> G192AδC

<400> 59
cag acc cag ccg agc aaa ccg acc acc aaa cag cgt cag aac aaa ccg 48
Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro
1 5 10 15

ccg aac aaa ccg aac aac gat ttc cat ttc gaa gtg ttc aac ttc gtg 96
Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val

20

25

30

ccg agc agc atc tgc agc aac ccg acc tgc tgg gcg atc agc aaa 144
Pro Ser Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Ser Lys
35 40 45

cgt atc ccg aac aaa 159
Arg Ile Pro Asn Lys
50

Sub 2
<210> 60
<211> 53
<212> PRT
<213> Respiratory syncytial Virus (RSV)

<400> 60
Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro
1 5 10 15

Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val
20 25 30

Pro Ser Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Ser Lys
35 40 45

Arg Ile Pro Asn Lys
50

<210> 61
<211> 153
<212> ADN
<213> Respiratory syncytial Virus (RSV)

<220>
<221> CDS
<222> (1)...(153)

<220>
<223> G6AδC

<400> 61 48
cag acc cag ccg agc aaa ccg acc acc aaa cag cgt cag aac aaa ccg
Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro
1 5 10 15

ccg aac aaa ccg aac aac gat ttc cat ttc gaa gtg ttc aac ttc gtg 96
Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val
20 25 30

ccg agc agc atc tgc agc aac ccg acc tgc tgg gcg atc agc aaa 144
Pro Ser Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Ser Lys
35 40 45

cgt atc ccg
Arg Ile Pro
153

50
~~<210> 62~~
~~<211> 51~~
~~<212> PRT~~
~~<213> Respiratory syncytial Virus (RSV)~~

Sub B3

~~<210> 62~~
Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro
1 5 10 15
Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val
20 25 30
Pro Ser Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Ser Lys
35 40 45
Arg Ile Pro
50

~~<210> 63~~
~~<211> 99~~
~~<212> ADN~~
~~<213> Respiratory syncytial Virus (RSV)~~

~~<220>~~
~~<221> CDS~~
~~<222> (1)...(99)~~

~~<220>~~
~~<223> G7AδC~~

~~<400> 63~~
aaa ccg aac aac gat ttc cat ttc gaa gtg ttc aac ttc gtg ccg agc 48
Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val Pro Ser
1 5 10 15
agc atc tgc agc aac aac ccg acc tgc tgg gcg atc agc aaa cgt atc 96
Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Ser Lys Arg Ile
20 25 30

ccg
Pro 99

~~<210> 64~~
~~<211> 33~~
~~<212> PRT~~
~~<213> Respiratory syncytial Virus (RSV)~~

~~<400> 64~~
Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val Pro Ser
1 5 10 15
Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Ser Lys Arg Ile

20 25 30

Pro

<210> 65
<211> 183
<212> ADM
<213> Respiratory syncytial Virus (RSV)

Sel
<220>
<221> CDS
<222> (1)...(183)

<220>
<223> G200B

<400> 65 48
agc acc cag acc aac aaa ccg agc acc aaa agc cgt agc aaa aac ccg
Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro
1 5 10 15

ccg aaa aaa ccg aaa gat gat tac cac ttc gaa gtg ttc aac ttc gtg 96
Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val
20 25 30

ccc tgc agc atc tgc ggc aac aac cag ctg tgc aaa agc atc tgc aaa 144
Pro Cys Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Cys Lys
35 40 45

acc atc ccg agc aac aaa ccg aaa aag aaa ccg acc atc 183
Thr Ile Pro Ser Asn Lys Pro Lys Lys Lys Pro Thr Ile
50 55 60

<210> 66
<211> 61
<212> PRT
<213> Respiratory syncytial Virus (RSV)

<400> 66
Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro
1 5 10 15

Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val
20 25 30

Pro Cys Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Cys Lys
35 40 45

Thr Ile Pro Ser Asn Lys Pro Lys Lys Lys Pro Thr Ile
50 55 60

<210> 67
<211> 177

<212> ADN
<213> Respiratory syncytial Virus (RSV)

<220>
<221> CDS
<222> (1)...(177)

<220>
<223> G198B

Ser
D53
<400> 67
agc acc cag acc aac aaa ccg agc acc aaa agc cgt agc aaa aac ccg 48
Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro
1 5 10 15

Pro
D53
<400> 67
ccg aaa aaa ccg aaa gat gat tac cac ttc gaa gtg ttc aac ttc gtg 96
Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val
20 25 30

Pro
D53
<400> 67
ccc tgc agc atc tgc ggc aac aac cag ctg tgc aaa agc atc tgc aaa 144
Pro Cys Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Cys Lys
35 40 45

Pro
D53
<400> 67
acc atc ccg agc aac aaa ccg aaa aag aaa ccg 177
Thr Ile Pro Ser Asn Lys Pro Lys Lys Lys Pro
50 55

Pro
D53
<400> 68
<211> 59
<212> PRT
<213> Respiratory syncytial Virus (RSV)

<400> 68
Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro
1 5 10 15

Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val
20 25 30

Pro Cys Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Cys Lys
35 40 45

Thr Ile Pro Ser Asn Lys Pro Lys Lys Lys Pro
50 55

<210> 69
<211> 171
<212> ADN
<213> Respiratory syncytial Virus (RSV)

<220>
<221> CDS
<222> (1)...(171)

<220>

<223> G196B

<400> 69

agc acc cag acc aac aaa ccg agc acc aaa agc cgt agc aaa aac ccg 48
Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro
1 5 10 15

ccg aaa aaa ccg aaa gat gat tac cac ttc gaa gtg ttc aac ttc gtg 96
Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val
20 25 30

ccc tgc agc atc tgc ggc aac aac cag ctg tgc aaa agc atc tgc aaa 144
Pro Cys Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Cys Lys
35 40 45

acc atc ccg agc aac aaa ccg aaa aag 171
Thr Ile Pro Ser Asn Lys Pro Lys Lys
50 55

<210> 70

<211> 57

<212> PRT

<213> Respiratory syncytial Virus (RSV)

<400> 70

Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro
1 5 10 15

Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val
20 25 30

Pro Cys Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Cys Lys
35 40 45

Thr Ile Pro Ser Asn Lys Pro Lys Lys
50 55

<210> 71

<211> 165

<212> ADN

<213> Respiratory syncytial Virus (RSV)

<220>

<221> CDS

<222> (1)...(165)

<220>

<223> G194B

<400> 71

agc acc cag acc aac aaa ccg agc acc aaa agc cgt agc aaa aac ccg 48
Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro
1 5 10 15

ccg aaa aaa ccg aaa gat gat tac cac ttc gaa gtc ttc aac ttc gtg 96
Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val
20 25 30

ccc tgc agc atc tgc ggc aac aac cag ctg tgc aaa agc atc tgc aaa 144
Pro Cys Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Cys Lys
35 40 45

acc atc ccg agc aac aaa ccg 165
Thr Ile Pro Ser Asn Lys Pro
50 55

<210> 72
<211> 55
<212> PRT

<213> Respiratory syncytial Virus (RSV)

<400> 72
Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro
1 5 10 15

Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val
20 25 30

Pro Cys Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Cys Lys
35 40 45

Thr Ile Pro Ser Asn Lys Pro
50 55

<210> 73

<211> 159

<212> ADN

<213> Respiratory syncytial Virus (RSV)

<220>
<221> CDS
<222> (1)...(159)

<220>
<223> G192B

<400> 73 48
agc acc cag acc aac aaa ccg agc acc aaa agc cgt agc aaa aac ccg
Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro
1 5 10 15

ccg aaa aaa ccg aaa gat gat tac cac ttc gaa gtc ttc aac ttc gtg 96
Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val
20 25 30

ccc tgc agc atc tgc ggc aac aac cag ctg tgc aaa agc atc tgc aaa 144
Pro Cys Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Cys Lys
35 40 45

Sub
acc atc ccg agc aac
Thr Ile Pro Ser Asn
50

159

<210> 74
<211> 53
<212> PRT
<213> Respiratory syncytial Virus (RSV)

<400> 74
Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro
1 5 10 15
Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val
20 25 30

Pro Cys Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Cys Lys
35 40 45

Thr Ile Pro Ser Asn
50

<210> 75
<211> 153
<212> ADN
<213> Respiratory syncytial Virus (RSV)

<220>
<221> CDS
<222> (1)...(153)

<220>
<223> G6B

<400> 75
agc acc cag acc aac aaa ccg agc acc aaa agc cgt agc aaa aac ccg 48
Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro
1 5 10 15

ccg aaa aaa ccg aaa gat gat tac cac ttc gaa gtg ttc aac ttc gtg 96
Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val
20 25 30

ccc tgc agc atc tgc ggc aac aac cag ctg tgc aaa agc atc tgc aaa 144
Pro Cys Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Cys Lys
35 40 45

acc atc ccg
Thr Ile Pro
50

153

<210> 76
<211> 51
<212> PRT

<213> Respiratory syncytial Virus (RSV)

<400> 76
Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro
1 5 10 15
Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val
20 25 30
Pro Cys Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Cys Lys
35 40 45
Thr Ile Pro
50

Sub
G7B

<210> 77

<211> 99

<212> ADN

<213> Respiratory syncytial Virus (RSV)

<220>
<221> CDS
<222> (1)..(99)

<220>
<223> G7B

Sub
G7B

<400> 77

aaa ccg aaa gat gat tac cac ttc gaa gtg ttc aac ttc gtg ccc tgc 48
Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val Pro Cys
1 5 10 15

agc atc tgc ggc aac aac cag ctg tgc aaa agc atc tgc aaa acc atc 96
Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Cys Lys Thr Ile
20 25 30

ccg
Pro

99

<210> 78

<211> 33

<212> PRT

<213> Respiratory syncytial Virus (RSV)

<400> 78

Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val Pro Cys
1 5 10 15

Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Cys Lys Thr Ile
20 25 30

Pro

<210> 79
<211> 183
<212> ADN
<213> Respiratory syncytial Virus (RSV)

<220>
<221> CDS
<222> (1)...(183)

<220> G200BdC
<223>

<400> 79
agc acc cag acc aac aaa ccg agc acc aaa agc cgt agc aaa aac ccg 48
Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro
1 5 10 15

ccg aaa aaa ccg aaa gat gat tac cac ttc gaa gtg ttc aac ttc gtg 96
Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val
20 25 30

ccc agc agc atc tgc ggc aac aac cag ctg tgc aaa agc atc agc aaa 144
Pro Ser Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Ser Lys
35 40 45

acc atc ccg agc aac aaa ccg aaa aag aaa ccg acc atc 183
Thr Ile Pro Ser Asn Lys Pro Lys Lys Pro Thr Ile
50 55 60

<210> 80
<211> 61
<212> PRT
<213> Respiratory syncytial Virus (RSV)

<400> 80
Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro
1 5 10 15

Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val
20 25 30

Pro Ser Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Ser Lys
35 40 45

Thr Ile Pro Ser Asn Lys Pro Lys Lys Lys Pro Thr Ile
50 55 60

<210> 81
<211> 177
<212> ADN
<213> Respiratory syncytial Virus (RSV)

<220>
<221> CDS
<222> (1)...(177)

Sub B3

<220>
<223> G198BδC

<400> 81
agc acc cag acc aac aaa ccg agc acc aaa agc cgt agc aaa aac ccg 48
Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro
1 5 10 15

ccg aaa aaa ccg aaa gat gat tac cac ttc gaa gtg ttc aac ttc gtg 96
Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val
20 25 30

ccc agc agc atc tgc ggc aac aac cag ctg tgc aaa agc atc agc aaa 144
Pro Ser Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Ser Lys
35 40 45

acc atc ccg agc aac aaa ccg aaa aag aaa ccg 177
Thr Ile Pro Ser Asn Lys Pro Lys Lys Lys Pro
50 55

<210> 82
<211> 59
<212> PRT
<213> Respiratory syncytial Virus (RSV)

<400> 82
Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro
1 5 10 15

Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val
20 25 30

Pro Ser Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Ser Lys
35 40 45

Thr Ile Pro Ser Asn Lys Pro Lys Lys Lys Pro
50 55

<210> 83
<211> 171
<212> ADN
<213> Respiratory syncytial Virus (RSV)

<220>
<221> CDS
<222> (1)...(171)

<220>
<223> G196BδC

<400> 83 48
agc acc cag acc aac aaa ccg agc acc aaa agc cgt agc aaa aac ccg
Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro

1 5 10 15
ccg aaa aaa ccg aaa gat gat tac cac ttc gaa gtc ttc aac ttc gtc 96
Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val
20 25 30

ccc agc agc atc tgc ggc aac aac cag ctg tgc aaa agc atc agc aaa 144
Pro Ser Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Ser Lys
35 40 45

acc atc ccg agc aac aaa ccg aaa aag 171
Thr Ile Pro Ser Asn Lys Pro Lys Lys
50 55

<210> 84

<211> 57

<212> PRT

<213> Respiratory syncytial Virus (RSV)

<400> 84

Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro
1 5 10 15

Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val
20 25 30

Pro Ser Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Ser Lys
35 40 45

Thr Ile Pro Ser Asn Lys Pro Lys Lys
50 55

<210> 85

<211> 183

<212> ADN

<213> Respiratory syncytial Virus (RSV)

<220>

<221> CDS

<222> (1)...(183)

<220>

<223> G200V

<400> 85
cta cca gcc aca aga aaa cca cca att aat cca tca gga agc atc cca 48
Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro
1 5 10 15

cca gaa aac cat caa gac cac aac ttc caa aca ctc ccc tat gtt 96
Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val
20 25 30

ccc tgc agt aca tgt gaa ggt aat ctt gca tgc tta tca ctc tgc cat 144
Pro Cys Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Cys His

35 40 45
att gag acg gaa aga gca cca agc aga gca cca aca atc
Ile Glu Thr Glu Arg Ala Pro Ser Arg Ala Pro Thr Ile
50 55 60
183

<210> 86
<211> 61
<212> PRT
<213> Respiratory syncytial Virus (RSV)

<400> 86
Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro
1 5 10 15

Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val
20 25 30

Pro Cys Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Cys His
35 40 45

Ile Glu Thr Glu Arg Ala Pro Ser Arg Ala Pro Thr Ile
50 55 60

<210> 87
<211> 165
<212> ADN
<213> Respiratory syncytial Virus (RSV)

<220>
<221> CDS
<222> (1)...(165)

<220>
<223> G194BδC

<400> 87
agc acc cag acc aac aaa ccg agc acc aaa agc cgt agc aaa aac ccg 48
Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro
1 5 10 15

ccg aaa aaa ccg aaa gat gat tac cac ttc gaa gtg ttc aac ttc gtg 96
Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val
20 25 30

ccc agc agc atc tgc ggc aac aac cag ctg tgc aaa agc atc agc aaa 144
Pro Ser Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Ser Lys
35 40 45

acc atc ccg agc aac aaa ccg 165
Thr Ile Pro Ser Asn Lys Pro
50 55

<210> 88

<211> 55
<212> PRT

<213> Respiratory syncytial Virus (RSV)

<400> 88

Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro
1 5 10 15

Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val
20 25 30

Pro Ser Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Ser Lys
35 40 45

Thr Ile Pro Ser Asn Lys Pro
50 55

<210> 89

<211> 159

<212> ADN

<213> Respiratory syncytial Virus (RSV)

<220>

<221> CDS

<222> (1)...(159)

<220>

<223> G192BδC

<400> 89

agc acc cag acc aac aaa ccg agc acc aaa agc cgt agc aaa aac ccg 48
Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro
1 5 10 15

ccg aaa aaa ccg aaa gat gat tac cac ttc gaa gtg ttc aac ttc gtg 96
Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val
20 25 30

ccc agc agc atc tgc ggc aac aac cag ctg tgc aaa agc atc agc aaa 144
Pro Ser Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Ser Lys
35 40 45

acc atc ccg agc aac
Thr Ile Pro Ser Asn
50

159

<210> 90

<211> 53

<212> PRT

<213> Respiratory syncytial Virus (RSV)

<400> 90

Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro
1 5 10 15

Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val
20 25 30

Pro Ser Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Ser Lys
35 40 45

Thr Ile Pro Ser Asn
50

<210> 91

<211> 153

<212> ADN

<213> Respiratory syncytial Virus (RSV)

<220>

<221> CDS

<222> (1)..(153)

<220>

<223> G6BδC

<400> 91

Agc acc cag acc aac aaa ccg agc acc aaa agc cgt agc aaa aac ccg 48
Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro
1 5 10 15

Accg aaa aaa ccg aaa gat gat tac cac ttc gaa gtg ttc aac ttc gtg 96
Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val
20 25 30

Acc agc agc atc tgc ggc aac aac cag ctg tgc aaa agc atc agc aaa 144
Pro Ser Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Ser Lys
35 40 45

acc atc ccg
Thr Ile Pro
50

153

<210> 92
<211> 51

<212> PRT

<213> Respiratory syncytial Virus (RSV)

<400> 92
Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro
1 5 10 15

Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val
20 25 30

Pro Ser Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Ser Lys
35 40 45

Thr Ile Pro
50

Susan
B

<210> 93
<211> 99
<212> ADN
<213> Respiratory syncytial Virus (RSV)

<220>
<221> CDS
<222> (1)...(99)

<220>
<223> G7BδC

<400> 93
aaa ccg aaa gat gat tac cac ttc gaa gtg ttc aac ttc gtg ccc agc 48
Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val Pro Ser
1 5 10 15

agc atc tgc ggc aac aac cag ctg tgc aaa agc atc agc aaa acc atc 96
Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Ser Lys Thr Ile
20 25 30

ccg 99
Pro

<210> 94
<211> 33
<212> PRT
<213> Respiratory syncytial Virus (RSV)

<400> 94
Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val Pro Ser
1 5 10 15
Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Ser Lys Thr Ile
20 25 30

Pro

<210> 95
<211> 303
<212> ADN
<213> Respiratory syncytial Virus (RSV)

<220>
<221> CDS
<222> (1)...(303)

<220>
<223> G2V

<400> 95

Sub
BS

caa aac aga aaa atc aaa ggt caa tca aca cta cca gcc aca aga aaa Gln Asn Arg Lys Ile Lys Gly Gln Ser Thr Leu Pro Ala Thr Arg Lys	48	
1 5 10 15		
cca cca att aat cca tca gga agc atc cca cca gaa aac cat caa gac Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro Pro Glu Asn His Gln Asp	96	
20 25 30		
cac aac aac ttc caa aca ctc ccc tat gtt ccc tgc agt aca tgt gaa His Asn Asn Phe Gln Thr Leu Pro Tyr Val Pro Cys Ser Thr Cys Glu	144	
35 40 45		
ggg aat ctt gca tgc tta tca ctc tgc cat att gag acg gaa aga gca Gly Asn Leu Ala Cys Leu Ser Leu Cys His Ile Glu Thr Glu Arg Ala	192	
50 55 60		
cca agc aga gca cca aca atc acc ctc aaa aag aca cca aaa cca aaa Pro Ser Arg Ala Pro Thr Ile Thr Leu Lys Lys Thr Pro Lys Pro Lys	240	
65 70 75 80		
acc aca aaa aag cca acc aag aca aca atc cat cac aga acc acg cca Thr Thr Lys Lys Pro Thr Lys Thr Thr Ile His His Arg Thr Ser Pro	288	
85 90 95		
gaa acc aaa ctg caa Glu Thr Lys Leu Gln	303	
100		
<210> 96		
<211> 101		
<212> PRT		
<213> Respiratory syncytial Virus (RSV)		
<400> 96		
Gln Asn Arg Lys Ile Lys Gly Gln Ser Thr Leu Pro Ala Thr Arg Lys		
1 5 10 15		
Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro Pro Glu Asn His Gln Asp		
20 25 30		
His Asn Asn Phe Gln Thr Leu Pro Tyr Val Pro Cys Ser Thr Cys Glu		
35 40 45		
Gly Asn Leu Ala Cys Leu Ser Leu Cys His Ile Glu Thr Glu Arg Ala		
50 55 60		
Pro Ser Arg Ala Pro Thr Ile Thr Leu Lys Lys Thr Pro Lys Pro Lys		
65 70 75 80		
Thr Thr Lys Lys Pro Thr Lys Thr Thr Ile His His Arg Thr Ser Pro		
85 90 95		
Glu Thr Lys Leu Gln		
100		

<210> 97

Sug
Stu
<211> 303

<212> ADN

<213> Respiratory syncytial Virus (RSV)

<220>

<221> CDS

<222> (1) .. (303)

<220>

<223> G2VδC

<400> 97

caa aac aga aaa atc aaa ggt caa tca aca cta cca gcc aca aga aaa 48
Gln Asn Arg Lys Ile Lys Gly Gln Ser Thr Leu Pro Ala Thr Arg Lys
1 5 10 15

cca cca att aat cca tca gga agc atc cca cca gaa aac cat caa gac 96
Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro Pro Glu Asn His Gln Asp
20 25 30

cac aac aac ttc caa aca ctc ccc tat gtt ccc agc agt aca tgt gaa 144
His Asn Asn Phe Gln Thr Leu Pro Tyr Val Pro Ser Ser Thr Cys Glu
35 40 45

ggt aat ctt gca tgc tta tca ctc agc cat att gag acg gaa aga gca 192
Gly Asn Leu Ala Cys Leu Ser Leu Ser His Ile Glu Thr Glu Arg Ala
50 55 60

cca agc aga gca cca aca atc acc ctc aaa aag aca cca aaa cca aaa 240
Pro Ser Arg Ala Pro Thr Ile Thr Leu Lys Lys Thr Pro Lys Pro Lys
65 70 75 80

acc aca aaa aag cca acc aag aca aca atc cat cac aga acc agc cca 288
Thr Thr Lys Lys Pro Thr Lys Thr Thr Ile His His Arg Thr Ser Pro
85 90 95

gaa acc aaa ctg caa 303
Glu Thr Lys Leu Gln
100

<210> 98

<211> 101

<212> PRT

<213> Respiratory syncytial Virus (RSV)

<400> 98

Gln Asn Arg Lys Ile Lys Gly Gln Ser Thr Leu Pro Ala Thr Arg Lys
1 5 10 15

Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro Pro Glu Asn His Gln Asp
20 25 30

His Asn Asn Phe Gln Thr Leu Pro Tyr Val Pro Ser Ser Thr Cys Glu
35 40 45

Gly Asn Leu Ala Cys Leu Ser Leu Ser His Ile Glu Thr Glu Arg Ala

50 55 60
Pro Ser Arg Ala Pro Thr Ile Thr Leu Lys Lys Thr Pro Lys Pro Lys
65 70 75 80
Thr Thr Lys Lys Pro Thr Lys Thr Thr Ile His His Arg Thr Ser Pro
85 90 95
Glu Thr Lys Leu Gln
100

<210> 99
<211> 177
<212> ADN
<213> Respiratory syncytial Virus (RSV)

<220>
<221> CDS
<222> (1)..(177)

<220>
<223> G198V

<400> 99
ctt cca gcc aca aga aaa cca cca att aat cca tca gga agc atc cca 48
Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro
1 5 10 15

cca gaa aac cat caa gac cac aac aac ttc caa aca ctc ccc tat gtt 96
Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val
20 25 30

ccc tgc agt aca tgt gaa ggt aat ctt gca tgc tta tca ctc tgc cat 144
Pro Cys Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Cys His
35 40 45

att gag acg gaa aga gca cca agc aga gca cca 177
Ile Glu Thr Glu Arg Ala Pro Ser Arg Ala Pro
50 55

<210> 100
<211> 59
<212> PRT
<213> Respiratory syncytial Virus (RSV)

<400> 100
Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro
1 5 10 15

Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val
20 25 30

Pro Cys Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Cys His
35 40 45

Ile Glu Thr Glu Arg Ala Pro Ser Arg Ala Pro
50 55

Sulf B2
<210> 101
<211> 171
<212> ADN
<213> Respiratory syncytial Virus (RSV)

<220>
<221> CDS
<222> (1)...(171)

<220>
<223> G196V

<400> 101
ctt cca gcc aca aga aaa cca cca att aat cca tca gga agc atc cca 48
Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro
1 5 10 15

cca gaa aac cat caa gac cac aac aac ttc caa aca ctc ccc tat gtt 96
Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val
20 25 30

ccc tgc agt aca tgt gaa ggt aat ctt gca tgc tta tca ctc tgc cat 144
Pro Cys Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Cys His
35 40 45

att gag acg gaa aga gca cca agc aga 171
Ile Glu Thr Glu Arg Ala Pro Ser Arg
50 55

<210> 102
<211> 57
<212> PRT
<213> Respiratory syncytial Virus (RSV)

<400> 102
Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro
1 5 10 15

Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val
20 25 30

Pro Cys Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Cys His
35 40 45

Ile Glu Thr Glu Arg Ala Pro Ser Arg
50 55

<210> 103
<211> 165
<212> ADN
<213> Respiratory syncytial Virus (RSV)

Sub B3

<220>
<221> CDS
<222> (1)...(165)

<220>
<223> G194V

<400> 103
ctt cca gcc aca aga aaa cca cca att aat cca tca gga agc atc cca 48
Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro
1 5 10 15

cca gaa aac cat caa gac cac aac aac ttc caa aca ctc ccc tat gtt 96
Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val
20 25 30

ccc tgc agt aca tgt gaa ggt aat ctt gca tgc tta tca ctc tgc cat 144
Pro Cys Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Cys His
35 40 45

att gag acg gaa aga gca cca 165
Ile Glu Thr Glu Arg Ala Pro
50 55

TOEPLITZ Matrix

<210> 104
<211> 55
<212> PRT
<213> Respiratory syncytial Virus (RSV)

<400> 104
Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro 15
1 5 10 15

Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val
20 25 30

Pro Cys Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Cys His
35 40 45

Ile Glu Thr Glu Arg Ala Pro
50 55

<210> 105
<211> 159
<212> ADN
<213> Respiratory syncytial Virus (RSV)

<220>
<221> CDS
<222> (1)...(159)

<220>
<223> G192V

Sub B3

<400> 105
ctt cca gcc aca aga aaa cca cca att aat cca tca gga agc atc cca 48
Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro
1 5 10 15

cca gaa aac cat caa gac cac aac aac ttc caa aca ctc ccc tat gtt 96
Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val
20 25 30

ccc tgc agt aca tgt gaa ggt aat ctt gca tgc tta tca ctc tgc cat 144
Pro Cys Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Cys His
35 40 45

att gag acg gaa aga 159
Ile Glu Thr Glu Arg
50

<210> 106

<211> 53

<212> PRT

<213> Respiratory syncytial Virus (RSV)

<400> 106
Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro
1 5 10 15

Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val
20 25 30

Pro Cys Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Cys His
35 40 45

Ile Glu Thr Glu Arg
50

<210> 107

<211> 153

<212> ADN

<213> Respiratory syncytial Virus (RSV)

<220>

<221> CDS

<222> (1)...(153)

<220>

<223> G6V

<400> 107

ctt cca gcc aca aga aaa cca cca att aat cca tca gga agc atc cca 48
Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro
1 5 10 15

cca gaa aac cat caa gac cac aac aac ttc caa aca ctc ccc tat gtt 96
Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val

20

25

30

ccc tgc agt aca tgt gaa ggt aat ctt gca tgc tta tca ctc tgc cat 144
Pro Cys Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Cys His

35

40

45

att gag acg 153
Ile Glu Thr

50

<210> 108
<211> 51
<212> PRT
<213> Respiratory syncytial Virus (RSV)

<400> 108
Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro
1 5 10 15

Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val
20 25 30

Pro Cys Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Cys His
35 40 45

Ile Glu Thr
50

<210> 109
<211> 99
<212> ADN
<213> Respiratory syncytial Virus (RSV)

<220>
<221> CDS
<222> (1)..(99)

<220>
<223> G7V

<400> 109 48
aac cat caa gac cac aac aac ttc caa aca ctc ccc tat gtt ccc tgc
Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val Pro Cys
1 5 10 15

agt aca tgt gaa ggt aat ctt gca tgc tta tca ctc tgc cat att gag 96
Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Cys His Ile Glu
20 25 30

acg
Thr

<210> 110
<211> 33

Sub B3

<212> PRT

<213> Respiratory syncytial Virus (RSV)

<400> 110

Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val Pro Cys
1 5 10 15

Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Cys His Ile Glu
20 25 30

Thr

<210> 111

<211> 183

<212> ADN

<213> Respiratory syncytial Virus (RSV)

<220>

<221> CDS

<222> (1)...(183)

<220>

<223> G200VδC

<400> 111

cta cca gcc aca aga aaa cca cca att aat cca tca gga agc atc cca 48
Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro
1 5 10 15

cca gaa aac cat caa gac cac aac aac ttc caa aca ctc ccc tat gtt 96
Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val
20 25 30

ccc agc agt aca tgt gaa ggt aat ctt gca tgc tta tca ctc agc cat 144
Pro Ser Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Ser His
35 40 45

att gag acg gaa aga gca cca agc aga gca cca aca atc 183
Ile Glu Thr Glu Arg Ala Pro Ser Arg Ala Pro Thr Ile
50 55 60

<210> 112

<211> 61

<212> PRT

<213> Respiratory syncytial Virus (RSV)

<400> 112

Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro
1 5 10 15

Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val
20 25 30

Pro Ser Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Ser His

35 40 45
Ile Glu Thr Glu Arg Ala Pro Ser Arg Ala Pro Thr Ile
50 55 60

Sud B3
<210> 113
<211> 177
<212> ADN
<213> Respiratory syncytial Virus (RSV)

<220>
<221> CDS
<222> (1)...(177)

<220>
<223> G198VδC

<400> 113
ctt cca gcc aca aga aaa cca cca att aat cca tca gga agc atc cca 48
Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro
1 5 10 15

cca gaa aac cat caa gac cac aac aac ttc caa aca ctc ccc tat gtt 96
Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val
20 25 30

ccc agc agt aca tgt gaa ggt aat ctt gca tgc tta tca ctc agc cat 144
Pro Ser Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Ser His
35 40 45

att gag acg gaa aga gca cca agc aga gca cca 177
Ile Glu Thr Glu Arg Ala Pro Ser Arg Ala Pro
50 55

<210> 114
<211> 59
<212> PRT
<213> Respiratory syncytial Virus (RSV)

<400> 114
Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro
1 5 10 15

Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val
20 25 30

Pro Ser Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Ser His
35 40 45

Ile Glu Thr Glu Arg Ala Pro Ser Arg Ala Pro
50 55

<210> 115
<211> 171

<212> ADN

<213> Respiratory syncytial Virus (RSV)

<220>

<221> CDS

<222> (1)..(171)

*Sub
B3*

<220>

<223> G196VδC

<400> 115

ctt cca gcc aca aga aaa cca cca att aat cca tca gga agc atc cca 48
Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro
1 5 10 15

cca gaa aac cat caa gac cac aac aac ttc ctt ctt aca ctc ccc tat gtt 96
Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val
20 25 30

ccc agc agt aca tgt gaa ggt aat ctt gca tgc tta tca ctc agc cat 144
Pro Ser Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Ser His
35 40 45

att gag acg gaa aga gca cca agc aga 171
Ile Glu Thr Glu Arg Ala Pro Ser Arg
50 55

<210> 116

<211> 57

<212> PRT

<213> Respiratory syncytial Virus (RSV)

<400> 116

Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro
1 5 10 15

Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val
20 25 30

Pro Ser Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Ser His
35 40 45

Ile Glu Thr Glu Arg Ala Pro Ser Arg
50 55

<210> 117

<211> 165

<212> ADN

<213> Respiratory syncytial Virus (RSV)

<220>

<221> CDS

<222> (1)..(165)

<220>

<283> G194VδC

<400> 117

ctt cca gcc aca aga aaa cca cca att aat cca tca gga agc atc cca 48
Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro
1 5 10 15

cca gaa aac cat caa gac cac aac aac ttc ctt aca ctc ccc tat gtt 96
Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val
20 25 30

ccc agc agt aca tgt gaa ggt aat ctt gca tgc tta tca ctc agc cat 144
Pro Ser Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Ser His
35 40 45

att gag acg gaa aga gca cca 165
Ile Glu Thr Glu Arg Ala Pro
50 55

<210> 118

<211> 55

<212> PRT

<213> Respiratory syncytial Virus (RSV)

<400> 118

Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro
1 5 10 15

Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val
20 25 30

Pro Ser Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Ser His
35 40 45

Ile Glu Thr Glu Arg Ala Pro
50 55

<210> 119

<211> 159

<212> ADN

<213> Respiratory syncytial Virus (RSV)

<220>

<221> CDS

<222> (1)...(159)

<220>

<223> G192VδC

<400> 119

ctt cca gcc aca aga aaa cca cca att aat cca tca gga agc atc cca 48
Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro
1 5 10 15

Sub B3
cca gaa aac cat caa gac cac aac aac ttc caa aca ctc ccc tat gtt 96
Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val
20 25 30

ccc agc agt aca tgt gaa ggt aat ctt gca tgc tta tca ctc agc cat 144
Pro Ser Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Ser His
35 40 45

att gag acg gaa aga 159
Ile Glu Thr Glu Arg
50

<210> 120
<211> 53
<212> PRT
<213> Respiratory syncytial Virus (RSV)

<400> 120
Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro
1 5 10 15

Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val
20 25 30

Pro Ser Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Ser His
35 40 45

Ile Glu Thr Glu Arg
50

<210> 121
<211> 153
<212> ADN
<213> Respiratory syncytial Virus (RSV)

<220>
<221> CDS
<222> (1)..(153)

<220>
<223> G6VδC

<400> 121 48
cta cca gcc aca aga aaa cca cca att aat cca tca gga agc atc cca
Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro
1 5 10 15

cca gaa aac cat caa gac cac aac aac ttc caa aca ctc ccc tat gtt 96
Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val
20 25 30

ccc agc agt aca tgt gaa ggt aat ctt gca tgc tta tca ctc agc cat 144
Pro Ser Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Ser His
35 40 45

att gag acg 153
Ile Glu Thr
50

Sub B3

<210> 122
<211> 51
<212> PRT
<213> Respiratory syncytial Virus (RSV)

<400> 122
Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro
1 5 10 15

Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val
20 25 30

Pro Ser Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Ser His
35 40 45

Ile Glu Thr
50

<210> 123
<211> 99
<212> ADN
<213> Respiratory syncytial Virus (RSV)

<220>
<221> CDS
<222> (1)..(99)

<220>
<223> G7VδC

<400> 123 48
aac cat caa gac cac aac aac ttc caa aca ctc ccc tat gtt ccc agc
Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val Pro Ser
1 5 10 15

agt aca tgt gaa ggt aat ctt gca tgc tta tca ctc agc cat att gag 96
Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Ser His Ile Glu
20 25 30

acg 99
Thr

<210> 124
<211> 33
<212> PRT
<213> Respiratory syncytial Virus (RSV)

<400> 124
Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val Pro Ser
1 5 10 15

Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Ser His Ile Glu
20 25 30

Thr

Sub B3
<210> 125
<211> 51
<212> ADN
<213> Respiratory syncytial Virus (RSV)

<220>
<221> CDS
<222> (1)..(51)

Sub G4V
<220>
<223> G4V

<400> 125
gtt ccc tgc agt aca tgt gaa ggt aat ctt gca tgc tta tca ctc tgc 48
Val Pro Cys Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Cys
1 5 10 15

cat 51
His

Sub PRT
<210> 126
<211> 17
<212> PRT
<213> Respiratory syncytial Virus (RSV)

<400> 126
Val Pro Cys Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Cys
1 5 10 15

His

<210> 127
<211> 51
<212> ADN
<213> Respiratory syncytial Virus (RSV)

<220>
<221> CDS
<222> (1)..(51)

<220>
<223> G4VδC

<400> 127
gtt ccc agc agt aca tgt gaa ggt aat ctt gca tgc tta tca ctc agc 48

Val Pro Ser Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Ser
1 5 10 15

cat His 51

Sub B3
<210> 128
<211> 17
<212> PRT
<213> Respiratory syncytial Virus (RSV)

<400> 128
Val Pro Ser Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Ser
1 5 10 15

His

<210> 129
<211> 17
<212> PRT
<213> Respiratory syncytial Virus (RSV)

<220>
<223> Xaa means orn.

<220>
<223> G4'V

<400> 129
Val Pro Asp Ser Thr Asp Glu Gly Asn Leu Ala Xaa Leu Ser Leu Xaa
1 5 10 15

His

<210> 130
<211> 17
<212> PRT
<213> Respiratory syncytial Virus (RSV)

<220>
<223> Xaa means orn.

<220>
<223> G4'vδC

<400> 130
Val Pro Ser Ser Thr Asp Glu Gly Asn Leu Ala Xaa Leu Ser Leu Ser
1 5 10 15

His

Sub
131
42
ADN

<210> 131
<211> 42
<212> ADN
<213> Respiratory syncytial Virus (RSV)

<220>
<221> CDS
<222> (1)...(42)

<220>
<223> G1V

<400> 131
agt aca tgt gaa ggt aat ctt gca tgc tta tca ctc tgc cat
Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Cys His
1 5 10

42

Sub
132
14
PRT

<210> 132
<211> 14
<212> PRT
<213> Respiratory syncytial Virus (RSV)

<400> 132
Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Cys His
1 5 10

Sub
133
42
ADN

<210> 133
<211> 42
<212> ADN
<213> Respiratory syncytial Virus (RSV)

<220>
<221> CDS
<222> (1)...(42)

<220>
<223> G1VδC

<400> 133
agt aca tgt gaa ggt aat ctt gca tgc tta tca ctc agc cat
Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Ser His
1 5 10

42

<210> 134
<211> 14
<212> PRT
<213> Respiratory syncytial Virus (RSV)

<400> 134
Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Ser His

1

5

10

<210> 135
<211> 14
<212> PRT
<213> Respiratory syncytial Virus (RSV)

<220>
<223> Xaa means orn.

<220>
<223> G1'VδC

<400> 135
Ser Thr Asp Glu Gly Asn Leu Ala Xaa Leu Ser Leu Ser His
1 5 10

135

<210> 136
<211> 15
<212> PRT
<213> Respiratory syncytial Virus (RSV)

<220>
<223> Xaa means orn.

<220>
<223> G1'

<400> 136
Ser Ile Asp Ser Asn Asn Pro Thr Xaa Trp Ala Ile Ser Lys Cys
1 5 10 15